RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/650,467A
Source:	1FW16.
Date Processed by STIC:	9/5/06

ENTERED



IFW16

RAW SEQUENCE LISTING DATE: 09/05/2006
PATENT APPLICATION: US/10/650,467A TIME: 12:42:22

Input Set : F:\6223ndlus.txt

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3 <110> APPLICANT: Lowery, David E.
        Geary, Timothy G.
         Kubiak, Teresa M.
 5
        Larsen, Martha J.
 8 <120> TITLE OF INVENTION: MODULATORS OF G PROTEIN-COUPLED RECEPTORS
10 <130> FILE REFERENCE: 30773/6223ND1US
12 <140> CURRENT APPLICATION NUMBER: US 10/650,467A
13 <141> CURRENT FILING DATE: 2003-08-28
15 <160> NUMBER OF SEQ ID NOS: 243
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19 <210> SEO ID NO: 1
20 <211> LENGTH: 1157
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26 <222> LOCATION: (1)..(1155)
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29 <223> OTHER INFORMATION: Clone identifier: CEGPCR1a
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36 gtg att ggt gga gct gga gtt ttg gca gaa gca ggc gaa gct gaa cta
37 Val Ile Gly Gly Ala Gly Val Leu Ala Glu Ala Gly Glu Ala Glu Leu
40 tot ggt gat gat ttt tat gag otg act oot gta gaa ttg ata ata
41 Ser Gly Asp Asp Phe Tyr Glu Leu Thr Pro Val Glu Leu Ile Ile
            35
42
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44 tgg tgc atg ctg tat gca att ata gcc ttc atg gca gtt gtt gga aat
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45 Trp Cys Met Leu Tyr Ala Ile Ile Ala Phe Met Ala Val Val Gly Asn
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48 ctt ctg gtt ctc tac ata aca ctg ttc aga tta aga gtc cgt tcc atc
49 Leu Leu Val Leu Tyr Ile Thr Leu Phe Arg Leu Arg Val Arg Ser Ile
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                                            75
52 aca acc tac ttc att ctg aac ctc gga ttt gct gac ctc ttc act ggt
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53 Thr Thr Tyr Phe Ile Leu Asn Leu Gly Phe Ala Asp Leu Phe Thr Gly
56 att ttt gcg att ccc ttc aag ttt cag gct gct ctt ttt caa gaa tgg
57 Ile Phe Ala Ile Pro Phe Lys Phe Gln Ala Ala Leu Phe Gln Glu Trp
60 ttc ctg ccg cga tca ctc tgc cgg ata gtt cca tac gtg gaa aca gtt
                                                                     384
61 Phe Leu Pro Arg Ser Leu Cys Arg Ile Val Pro Tyr Val Glu Thr Val
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The same of the sa

RAW SEQUENCE LISTING DATE: 09/05/2006
PATENT APPLICATION: US/10/650,467A TIME: 12:42:22

Input Set : E:\6223ndlus.txt

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		Arg	Thr	Met	Phe	Phe	Ser	Lys	Cys	Ser		Met	Ser	Pro	Arg		
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																tct ··	528
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				Tyr													072
86		21.0		-1-	71.011	vul	215			110					2		
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92	tca	ttg	agt	cag	tca	aga	gtt	gaa	ctt	gat	gaa	aca	aaa	atg	gca	acc	768
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	_	_		atg	_					-	_	-	_				816
97	Gln	Lys	Leu	Met	Arg	Thr	Leu	Ile	Ile	Val	Val	Ala	Cys	Phe	Ser	Leu	
98				260					265					270			
	tgt	: tqc			. ++~	Can	1 200	tat	cta	ctt		*		tto			864
10.																	
	_		Phe	Pro				Tyr	Leu				ı Glu	Leu		Pro	
102	2	Trp	275	Pro	Leu	Glu	Thr	Tyr 280	Leu	Leu	Let	ı Asr	1 Glu 285	Leu S	Lys	Pro	012
102 104	2 1 gaa	Try att	Phe 275 aat	e Pro 5 gga	Leu tgg	Glu	Thr	Tyr 280 ato	Leu aat	Leu ttg	Let gtg	Asr	Glu 285 ttc	Leu ; ; ttt	Lys tca	Pro a cat	912
102 104 105	2 4 gaa 5 Glu	Trp att	Phe 275 aat Asr	e Pro 5 gga	Leu tgg	Glu	tac Tyr	Tyr 280 atc	Leu aat	Leu ttg	Let gtg	tto Phe	285 tto Phe	Leu ; ; ttt	Lys tca	Pro	912
102 102 103	2 4 gaa 5 Glu	Trg att 1116 290	Phe 275 aat Asr	Pro gga Gly	Leu tgg Trp	Glu aaa Lys	tac Tyr 295	Tyr 280 ato Ile	Leu aat Asn	ttg Leu	Leu ggtg Val	tto Phe	285 285 tto Phe	Leu ttt Phe	tca Ser	e Pro	
102 104 105 106	2 4 gaa 5 Glu 6 8 tgg	Try att	Phe 275 aat Asr	e Pro gga Gly	Leu tgg Trp	aaa Lys	tac Tyr 295	Tyr 280 atc Ile	Leu aat Asn	ttg Leu Leu	Lev gtg Val	tto Phe 300	285 tto Phe	Leu ttt Phe	tca Ser	e Pro	912 960
102 102 103 103 103	gaa gaa Glu G g tgg	att lle 290 g cto	Phe 275 aat Asr	e Pro gga Gly	Leu tgg Trp	aaa Lys aat Asn	tac Tyr 295 tct	Tyr 280 atc Ile	Leu aat Asn	ttg Leu Leu	gto Val	tto Phe 300 a att	285 tto Phe	Leu ttt Phe	tca Ser	a cat His a ctt	
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102 104 105 106 108 116 112	2 gaa 5 Glu 6 tgg 9 Trr 0 305 2 tao 3 Tyr	a att lle 290 cto Leu caat Asr	Phe 275 aat Asr g gcg n Ala aca	e Pro gga gga gatg Met	tgg Trp agc Ser tac	aaaa Lys aat Asn 310 aac	tac Tyr 295 tct Ser gag	Tyr 280 atc Ile tgt Cys gaa Glu	Leu aat Asn ctt Leu tat	ttg Leu aat Asn cgt	g gtg Val cca Pro 315 cgt	The Asr	285 tto Phe) att Ile	Leur ttt Phe tat Tyr	tca Ser Gly Caa	a cat His Ctt Leu 320 a att Ile	960
102 103 103 103 113 113 113	2 gas 5 Glu 6 Try 0 305 2 tao 3 Ty	atti atti 11e 290 cto Leus catti Asr	Phe 275 aat Asr D gcg Ala	e Pro	tgg Trp agc Ser tac Tyr 325	aaa Lys aat Asn 310 aac	tac Tyr 295 tct Ser gag	Tyr 280 atc Ile tgt Cys gaa Glu	aat Asn Ctt Leu tat	ttg Leu aat Asn cgt Arg	g gtg Val cca Pro 315 cgt	The Asr	1 Glu 285 tto Phe 1 att Ile Ile Itt	tttte Phe	tca Ser Gly Glr 335	a cat c His a ctt y Leu 320 a att n Ile	960
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102 103 103 103 113 114 115 116 117 118 120 121 121	2 gas 4 gas 5 Glu 5 Tr 9 Tr 10 305 2 tac 8 Ty 14 6 ggs 7 Glu 8 gas 1 Glu	att att 11e 290 Cto Let 6 aat Asr Asr Cys	Phe 275 aat 275 aat 275 aat 275 aat 275 at 2	g atg a atg a atg a Met a aaa Lys tgg 340 tgg	tgg Trp agc Ser tac Tyr 325 Caa Gln aat	aaa Lys aat Asn 310 aac Asn cgg	tac Tyr 295 tct Ser gag Glu cag Gln	Tyr 280 atc Ile tgt Cys gaa Glu aaa Lys aat Asn 360	aat Asn Ctt Leu tat Tyr agt Ser 345	ttg Leu aat Asn cgt Arg 330 ttg	g gtg g Val c cca 315 c cgt Arg g gac g Asg	The Asr Store As	Glu 285 tto 28	ttte ttte tate tate Tyr cge Arg atg Tele 350 acag	tca Ser Gly Glr 335 Jaaa Lys	a cat C His C His C Leu C J Le	960 1008 1056 1104
102 104 109 100 100 110 112 113 114 116 122 122 122	2 gas 5 Gli 6 Gli 7 Gli 8 ggs 7 Gli 9 Gli 9 Gli 2 gas	atti Ile 290 Cto Lei 6 aatt Asr Asr Cys	Phe 275 aat 275 aat 275 at 275	g atgga atgga Met aaaa Lys tggg Trp 340 tggg Trp 5 tggg	tgg Trp agc Ser tac Tyr 325 Gaa Gal Asn	aaaa Lys aatt Asm 310 aac Asm Cgg tct Ser	tac Tyr 295 tct Ser gag Glu cag Gln tca Ser	Tyr 280 atc Ile tgt Cys gaa Glu aaa Lys aat Asn 360 cca	Leu aat Asn Ctt Leu tat Tyr agt Ser 345 gat	ttg Leu aat Asn Cgt 330 ttg Cys	g gtg g Val c cca 315 c cgt Arg g Arg	The Asr Store As	of Gluce Phenology at the Ile It to Ser Cara Glr. 365 a a a to Glr.	ttte ttte tat tat tat tat tat ta	tca Ser Gly Glr 335 Jaaa Lys Jaaa Glr	a cat C His Ctt C Leu 320 a att n Ile Ccg Fro a ctt Ile ttt	960 1008 1056
102 104 109 100 100 110 112 113 114 116 122 122 122	2 gat 4 gat 5 Gli 6 Tri 0 305 2 tac 7 Gli 8 gat 7 Gli 9 Gat 7 Asi	atti Ile 290 Cto Lei 6 aatt Asr Asr Cys	Phe 275 aat 27	g atgga atgga Met aaaa Lys tggg Trp 340 tggg Trp 5 tggg	tgg Trp agc Ser tac Tyr 325 Gaa Gal Asn	aaaa Lys aatt Asm 310 aac Asm Cgg tct Ser	tac Tyr 295 tct Ser gag Glu cag Gln tca Ser	Tyr 280 atc Ile tgt Cys gaa Glu aaa Lys aat Asn 360 cca Pro	Leu aat Asn Ctt Leu tat Tyr agt Ser 345 gat	ttg Leu aat Asn Cgt 330 ttg Cys	g gtg g Val c cca 315 c cgt Arg g Arg	The Asr Store As	Glu 285 ttto Phe Cattor Phe	ttte ttte tat tat tat tat tat ta	tca Ser Gly Glr 335 Jaaa Lys Jaaa Glr	a cat C His C His C Leu C J Le	960 1008 1056 1104

RAW SEQUENCE LISTING DATE: 09/05/2006
PATENT APPLICATION: US/10/650,467A TIME: 12:42:22

Input Set : E:\6223ndlus.txt

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  150 Trp Cys Met Leu Tyr Ala Ile Ile Ala Phe Met Ala Val Val Gly Asn
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  171 Ala Lys Arg Cys Val Leu Leu Ile Trp Ile Met Ala Val Leu Val Ser
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  174 Leu Pro His Gly Leu Phe His Asn Thr Tyr Glu Phe Pro Asp Asp Asn
  175 180
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  177 Asn Thr Ser Ile Val Gln Cys Leu Pro Val Tyr Pro Asp Ala Gly Trp
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  180 Trp Lys Thr Tyr Asn Val Tyr Leu Val Ile Ile Gln Tyr Phe Val Pro
  181 210
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  183 Met Ile Ile Leu Asp Thr Ala Tyr Thr Met Ile Ala Val Lys Ile Trp
  186 Ser Leu Ser Gln Ser Arg Val Glu Leu Asp Glu Thr Lys Met Ala Thr
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  190 260
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  193 275
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  195 Glu Ile Asn Gly Trp Lys Tyr Ile Asn Leu Val Phe Phe Phe Ser His
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                                              300
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  201 Tyr Asn Thr Lys Tyr Asn Glu Glu Tyr Arg Arg Leu Phe Arg Gln Ile
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rin 3,55 .

RAW SEQUENCE LISTING DATE: 09/05/2006
PATENT APPLICATION: US/10/650,467A TIME: 12:42:22

Input Set : E:\6223ndlus.txt

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      238 tct gqt qat qat ttt tat gag ctg act cct gta gaa ttg ata ata
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      239 Ser Gly Asp Asp Phe Tyr Glu Leu Thr Pro Val Glu Leu Ile Ile
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                                     120
      263 gct ctg aca gtt tca gtc ttc aca ctt gtg acg tca gca gtt cat gaa
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      269 145
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RAW SEQUENCE LISTING DATE: 09/05/2006
PATENT APPLICATION: US/10/650,467A TIME: 12:42:22

Input Set : E:\6223ndlus.txt

Output Set: N:\CRF4\09052006\J650467A.raw

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													gat				624	
	Asn	Thr	Ser	I·le	Val	Gln	Cys		Pro	Val	Tyr	Pro	_	Ala	Gly	Trp. 🐬	•:	
281			195					200					205					
													tat				672	
	Trp	_	Thr	Tyr	Asn	Val		Leu	Val	Ile	Ile		Tyr.	Phe	Val	Pro		
285		210					215					220					=	
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		ile	тте	Leu	Asp		Ата	туr	Thr	met		Ата	Val	гÀг	TTE			
289						230					235				~~~	240	760	
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	ser	Leu	ser	GIII		Arg	vai	GIU	ьeu	_	GIU	IIII	Lys	Mec	255	IIII		
293	~	224	2+2	tan	245	at a	+ = =	2 t ~	~++	250	003	224	agt:	722		tcg.	816	
-295 -296																	.0.20, .,	414
297	GIII	Буъ	116	260	vaı	vai	261	Mec	265	261	FIO	VOII	1111	270	пса	Der		
	cad	ctt	ato		act	ctc	atc	att		att	acc	tat	ttc		t.t.a	t.at.	864	
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301	01	cu	275	5				280				010	285			-1-		
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	Cys	Ile	_	Gln	Arg	Gln	Lys		Leu	Asp	Asp	Ser	Met	Lys	Pro	Glu		
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													cag				1152	
			Trp	Asn	ser	Ser		Asp	Cys	GIn	Asp		Gln	GIU	IIe	Asp		
327		370					375					380					1200	
													aat				1200	
		тте	vaı	Asp	тте		PTO	val	тте	ser		ASII	Asn	ьeu	ser	400		
	385					390					395					400	1202	
333	-	י בי	יי אב	א ר	. 1												1202	
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33/		l> Li		1: 4:	00													

338 <212> TYPE: PRT

.....

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/05/2006 PATENT APPLICATION: US/10/650,467A TIME: 12:42:23

Input Set : E:\6223ndlus.txt

Output Set: N:\CRF4\09052006\J650467A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

12° \$ "

Seq#:90; Xaa Pos. 3 Seq#:95; Xaa Pos. 1 Seq#:103; Xaa Pos. 1 Seq#:118; Xaa Pos. 1 Seq#:119; Xaa Pos. 1 Seq#:160; Xaa Pos. 1 Seq#:162; Xaa Pos. 1 Seq#:164; Xaa Pos. 1
 VERIFICATION SUMMARY
 DATE: 09/05/2006

 PATENT APPLICATION: US/10/650,467A
 TIME: 12:42:23

Input Set : E:\6223ndlus.txt

Output Set: N:\CRF4\09052006\J650467A.raw

L:1936 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (19) SEQUENCE: L:1944 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (20) SEQUENCE: L:5313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:0 L:5398 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:0 L:5525 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103 after pos.:0 L:7025 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118 after pos.:0 L:7049 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:119 after pos.:0 L:7120 M:300 W: (50) Intentionally skipped Sequence, Sequence Id (124) SEQUENCE: L:7204 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (130) SEQUENCE: L:7228 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (132) SEQUENCE: L:7253 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (134) SEQUENCE: L:7308 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (138) SEQUENCE: L:7333 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (140) SEQUENCE: L:7357 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (142) SEQUENCE: L:7381 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (144) SEQUENCE: L:7391 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (145) SEQUENCE: L:7400 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (146) SEQUENCE: L:7409 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (147) SEQUENCE: 36 L:7418.M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (148) SEQUENCE: **** L:7427 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (149) SEQUENCE: The control of the control o L:7642 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:160 after pos.:0 L:7685 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:162 after pos.:0 L:7728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:164 after pos.:0 L:7790 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (168) SEQUENCE: L:7803 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (169) SEQUENCE: L:7815 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (170) SEQUENCE:

STATISTICS SUMMARY DATE: 09/05/2006
PATENT APPLICATION: US/10/650,467A TIME: 12:42:23

Input Set : E:\6223ndlus.txt

Output Set: N:\CRF4\09052006\J650467A.raw

Application Serial Number: US/10/650,467A

Alpha or Numeric or Xml: Numeric

Application Class:

Application File Date: 08-28-2003

Art Unit: IFW16

Software Application: PatentIN2.0
Total Number of Sequences: 243

Total Nucleotides: 40338
Total Amino Acids: 14106
Number of Errors: 0
Number of Warnings: 26
Number of Corrections: 0

MESSAGE SUMMARY

300 W: 18 ((50) Intentionally skipped Sequence)
341 W: 8 ((46) "n" or "Xaa" used)